

MAXWELL JONES

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EDUCATION

Bachelor of Science, Artificial Intelligence and Math

Carnegie Mellon University '23, Pittsburgh, PA

2019-Present

GPA: 4.0

- Fundamentals of Programming and Computer Science, Principles of Imperative Computation
- Calculus I, II, Linear Algebra, Physics I, II
- Principles of Macro/Micro Economics, US History

High School Graduate

Thomas Jefferson High School for Science and Technology, Alexandria, VA

2015-2019

GPA: ~3.6

- Multivariable Calculus, Complex Analysis, Differential Equations

STRENGTHS AND PROJECTS

Coding

- Python, Java, SQL, Julia, Javascript, HTML, Sklearn, Keras, NumPy
- Proficient with neural networks, random forests, pathfinding algorithms (Dijkstra, A*), Traveling Salesmen Problem, Game AIs (heuristic, negamax, alpha-beta pruning)

Projects

- Helped create **WalkSafe**, a program that outputted **Safe and Efficient** walking paths given a start and end point at night in dangerous areas, using a maps API, A*, and crime data at **TartanHacks 2019**
- Competed in an online AI housing competition, implementing **random forests** through Sklearn.
- Coded an algorithm that played a game of **Othello** against a human using a heuristic and negamax/alpha beta pruning for finding new moves.
- Used Python to make a **two-layer neural network** with six hidden nodes without the use of libraries. I used this network to test my understanding of neural networks.
- Created a program to calculate plus/minus for basketball lineups, given when players came in and out of games and when teams scored (implemented for my varsity high school basketball team).

LEADERSHIP AND EXPERIENCE

Personal Computer Science and AI Tutor

- Group tutor for high school/middle school students in an introductory course about Java.
- One-on-one tutor for students in AI using Python.

Origami

- Wrote a column on young origamists in *The Paper*, a national origami magazine.
- Created an origami website for young origamists to share work.
- Taught origami in multiple countries across three continents.

High School

- Tutored middle school students in math and science and led a bi-weekly program to help underrepresented minorities gain interest in STEM through science labs.

College

- Treasurer for SPIRIT, CMU's Black Student Organization
- Club Basketball
- CMU SCS Social Media Ambassador
- TA for 15-151: A discrete math course for freshman in CMU's School of Computer Science